



Virginia Wastewater Surveillance Program: Community of Practice Meeting

WWS Team

VDH | Office of Environmental Health Services

January 26, 2022

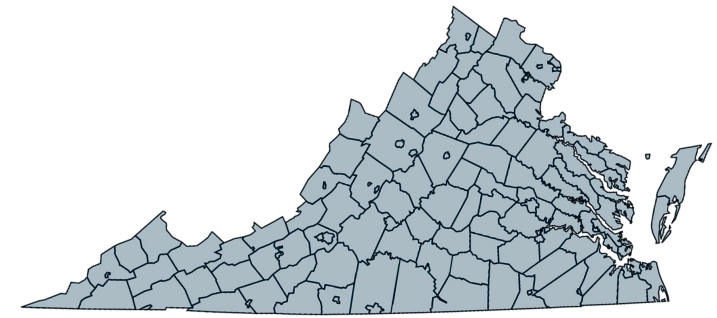


Agenda

- ❑ Updates & Funding Opportunities (5 mins)
- ❑ Topic(s) of Interest (15 mins):
 - ★ *Sentinel Monitoring Results*
 - ★ *Dashboard Development*
- ❑ Open Discussion (5-10 mins)



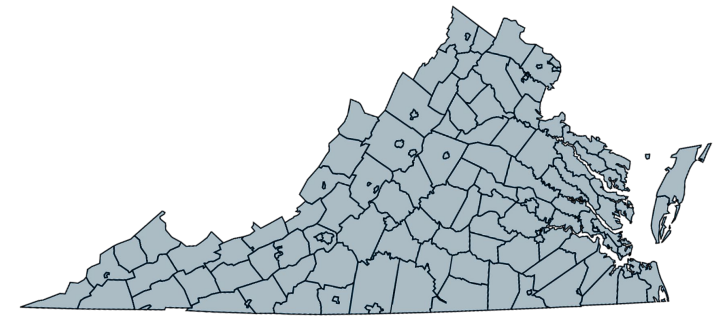
Sentinel Monitoring Updates



Weekly SARS-CoV-2 monitoring at influent to 25 wastewater treatment plants statewide started on September 13: 20 weeks!

- ❖ Weekly results sharing with:
 - Utilities
 - Health Department Partners
 - Environmental Health Managers
 - DCIPHER
 - Internal-facing Dashboard
- ❖ **Variant Detection/Sequencing to begin soon!**

Funding Opportunities



❖ CDC-WEF Free Autosampler Program

- At least 225 small utilities will be selected
- Still accepting applications!
- Link to application portal

❖ CDC-LuminUltra Commercial Sampling

- Still enrolling new utilities
- Must not be currently involved in CDC NWSS
- Sampling: twice/week

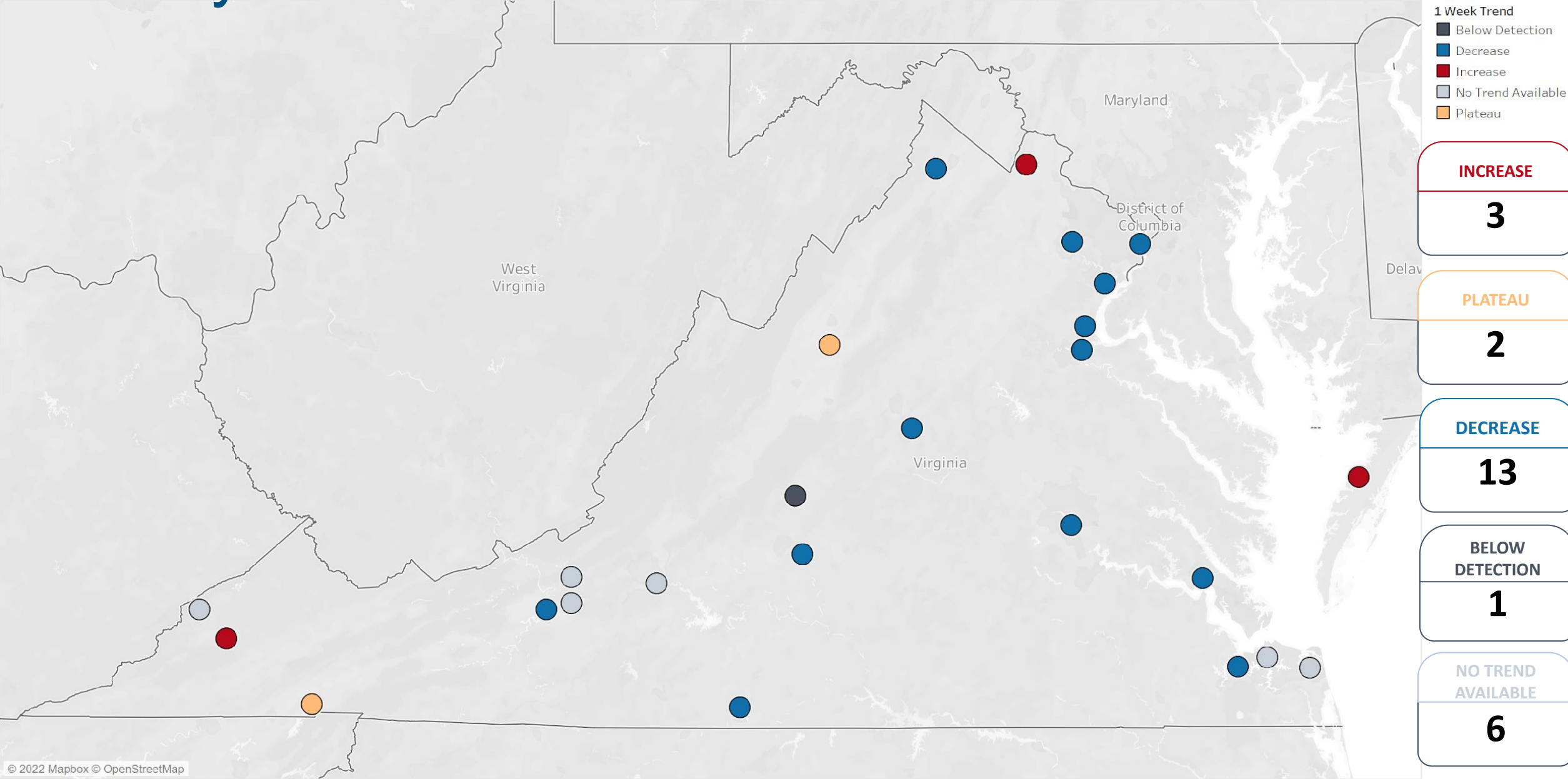
❖ Localized Projects

- Application live!

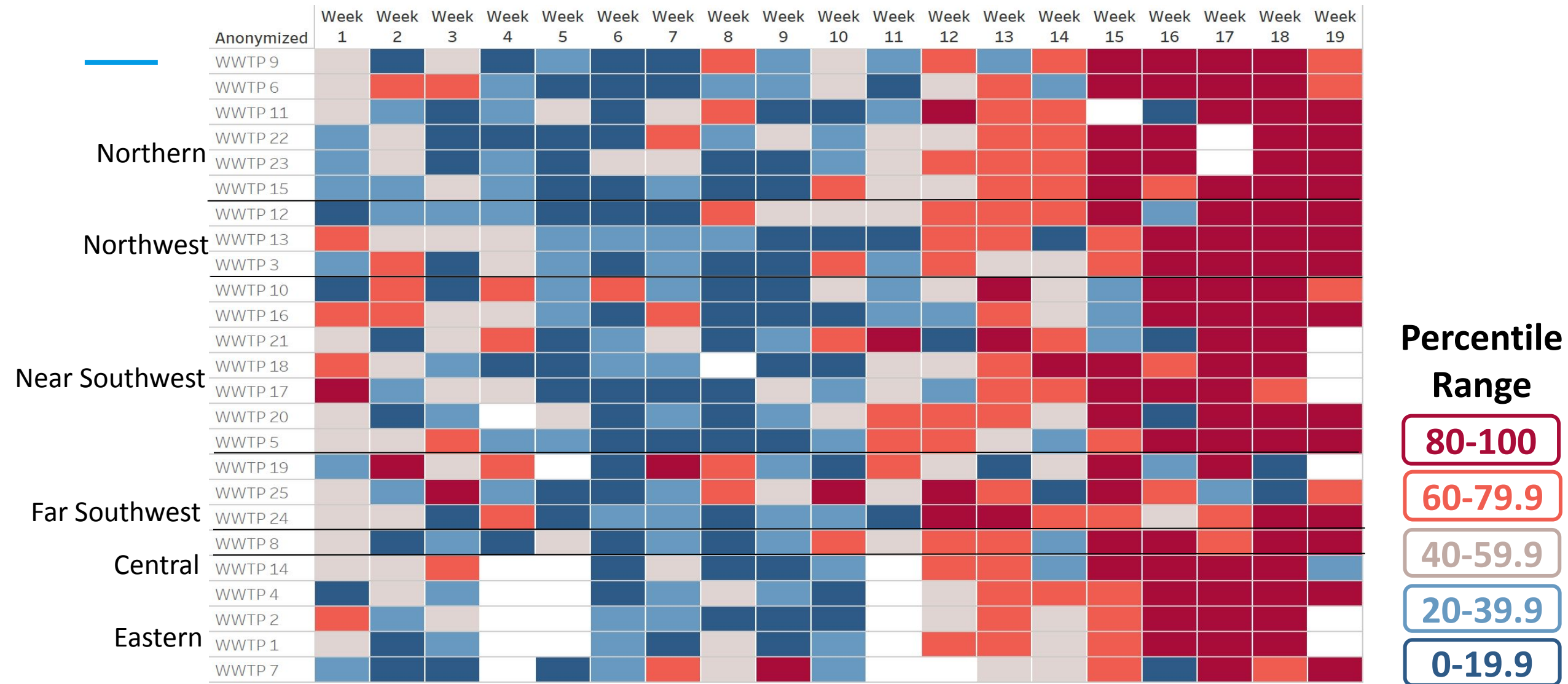
Sentinel Monitoring Results



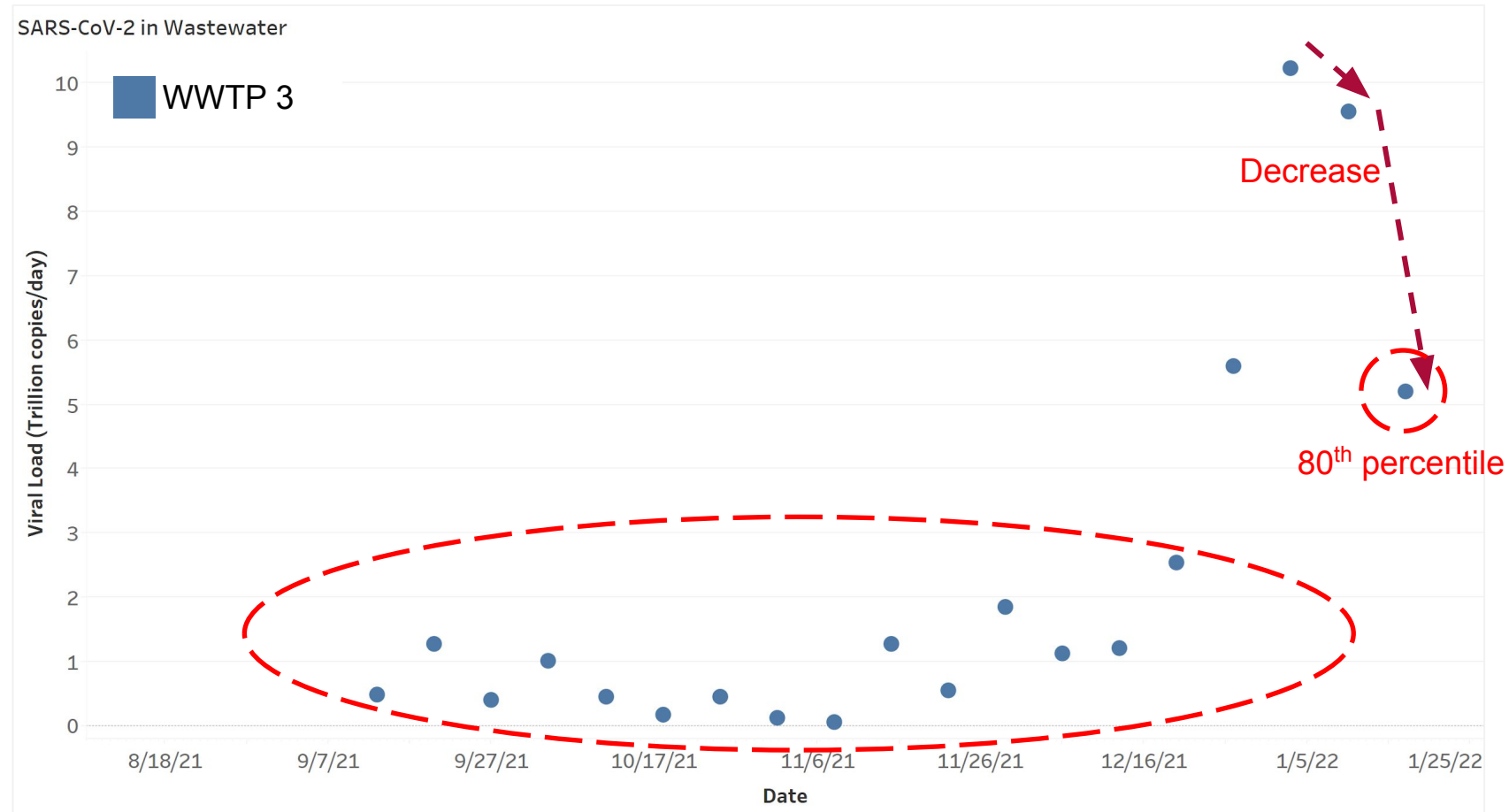
Weekly Trend

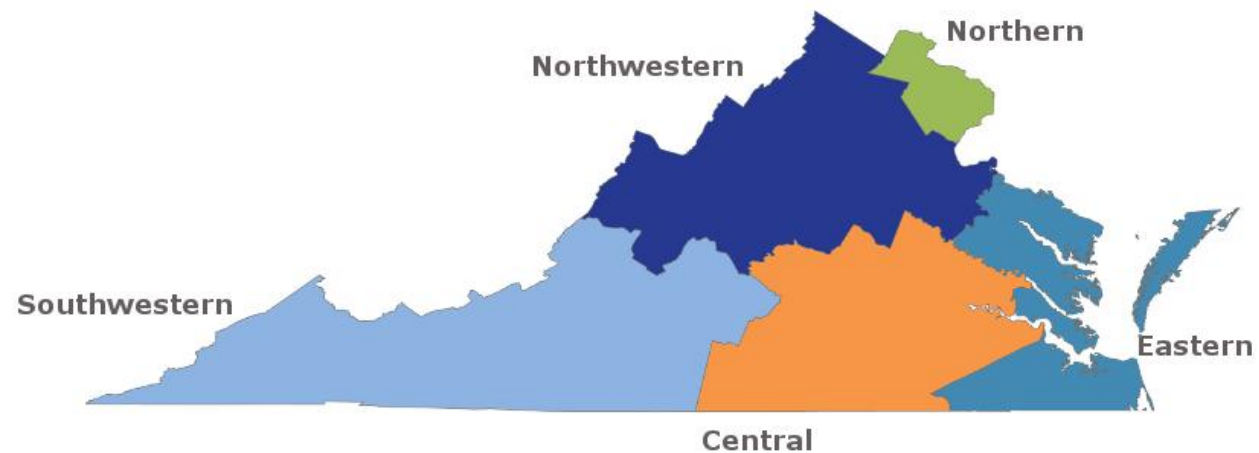


Site-Specific Percentiles



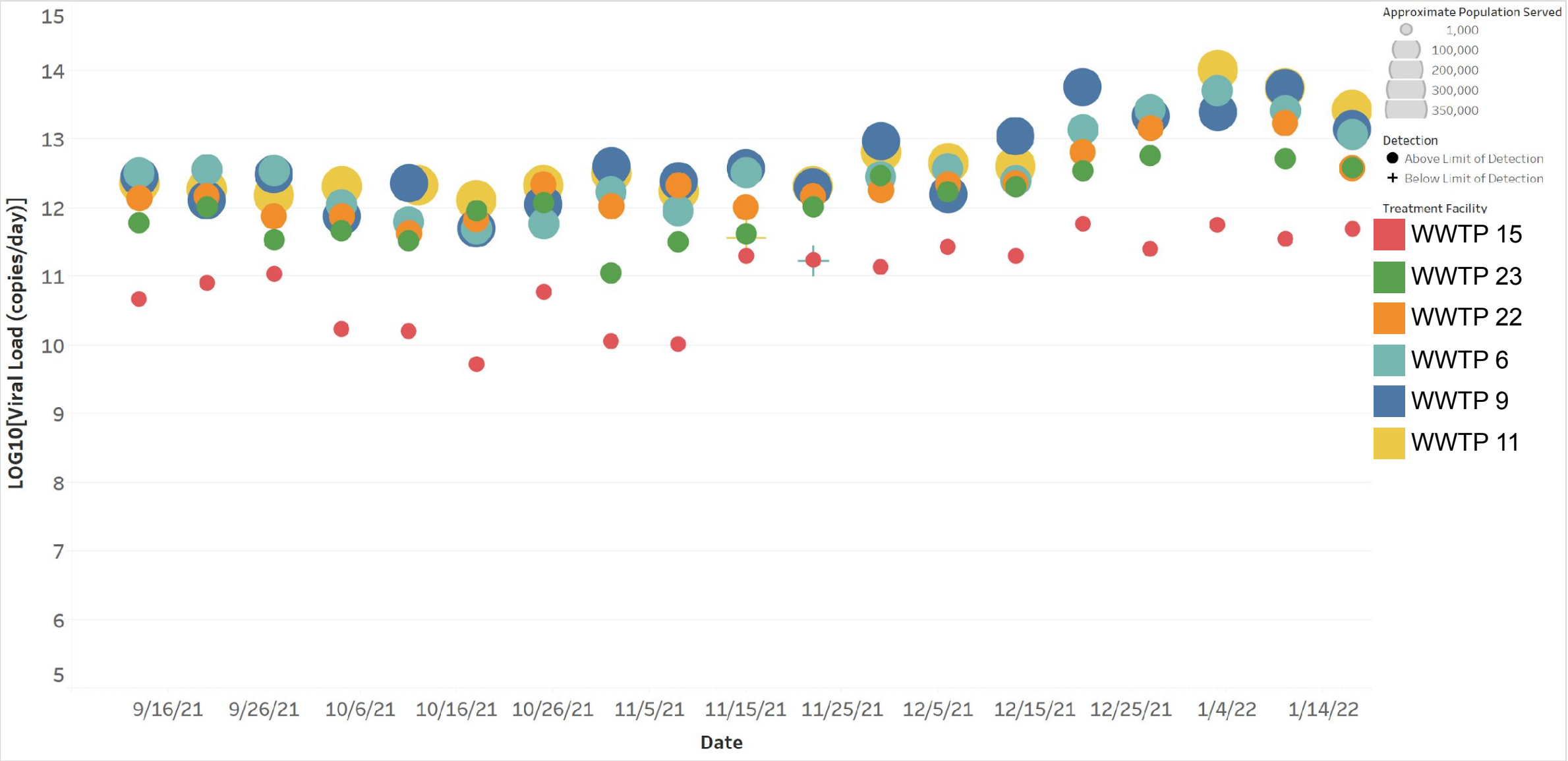
Example of Decreasing Trend & 80th Percentile





Sentinel Monitoring Results by Region

Northern VA Facilities



Northern VA Facilities (Stacked)

Figure 1a. SARS-CoV-2 in Wastewater

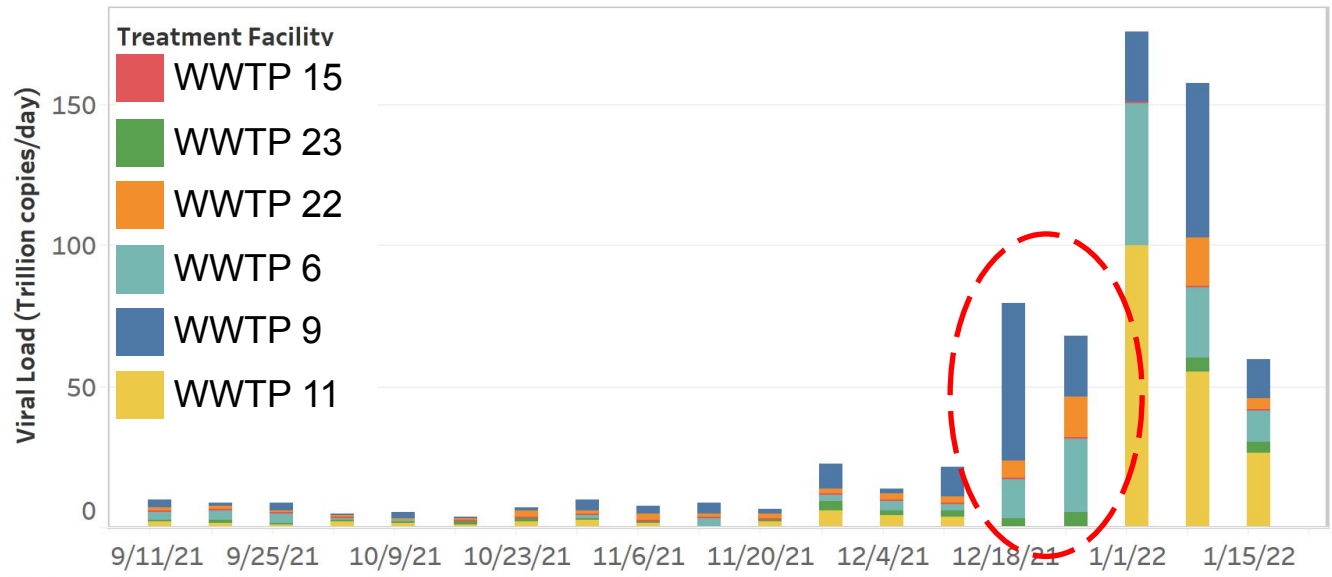
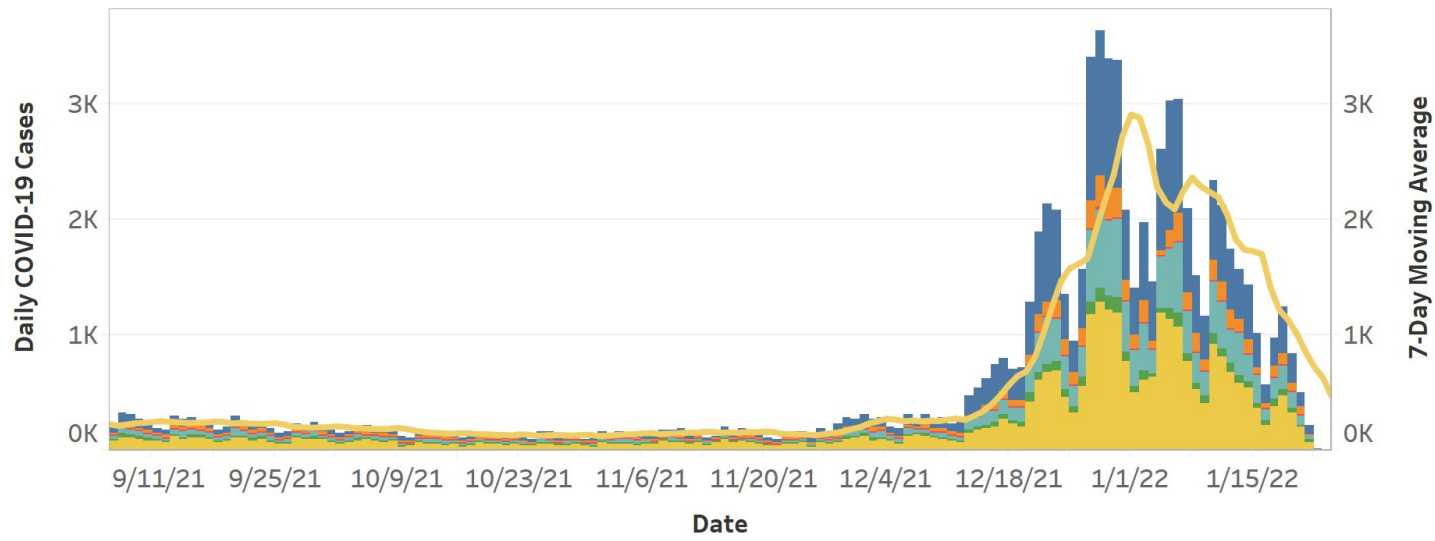
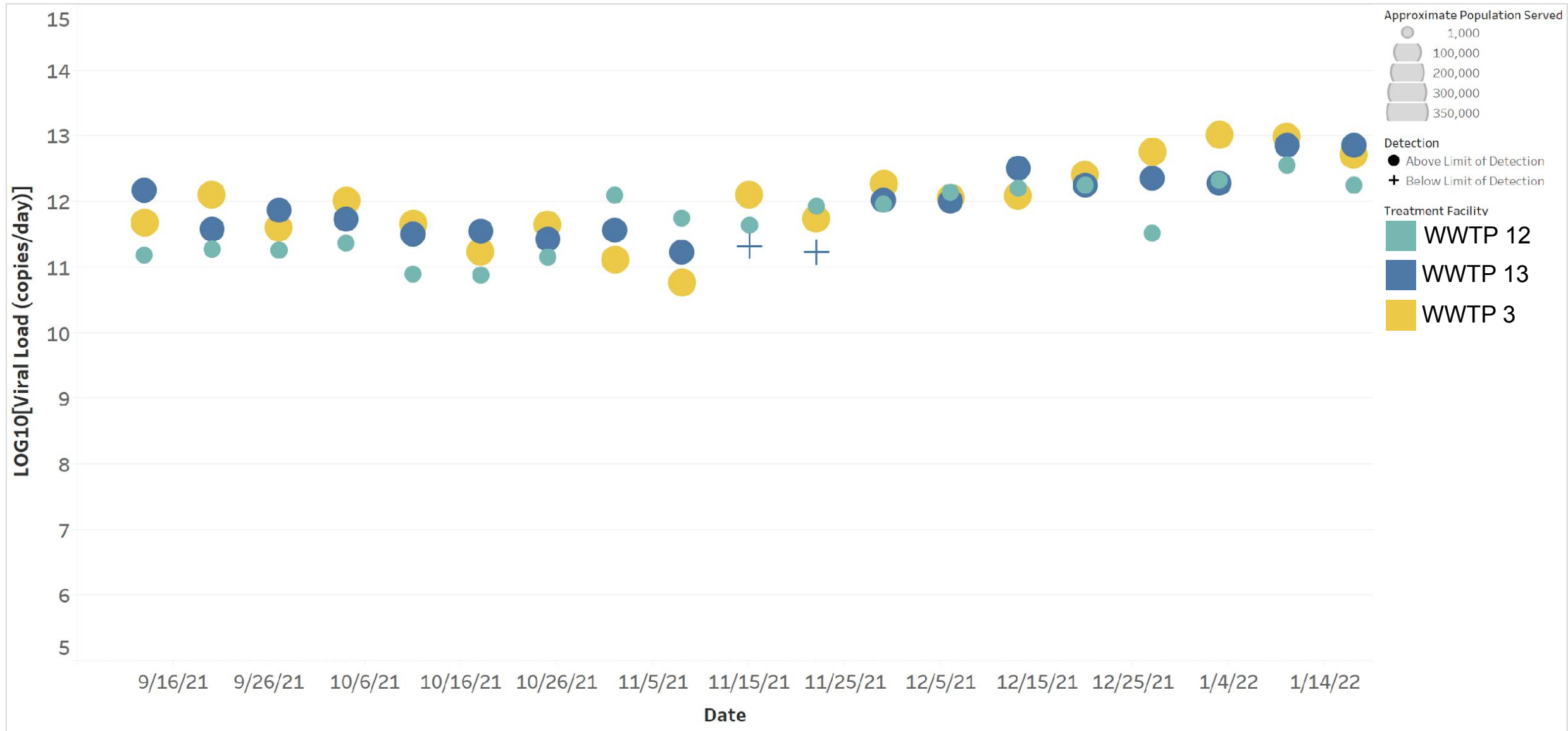


Figure 1b. COVID-19 Case Data



Northwest VA Facilities



Northwest VA Facilities (Stacked)

Figure 1a. SARS-CoV-2 in Wastewater

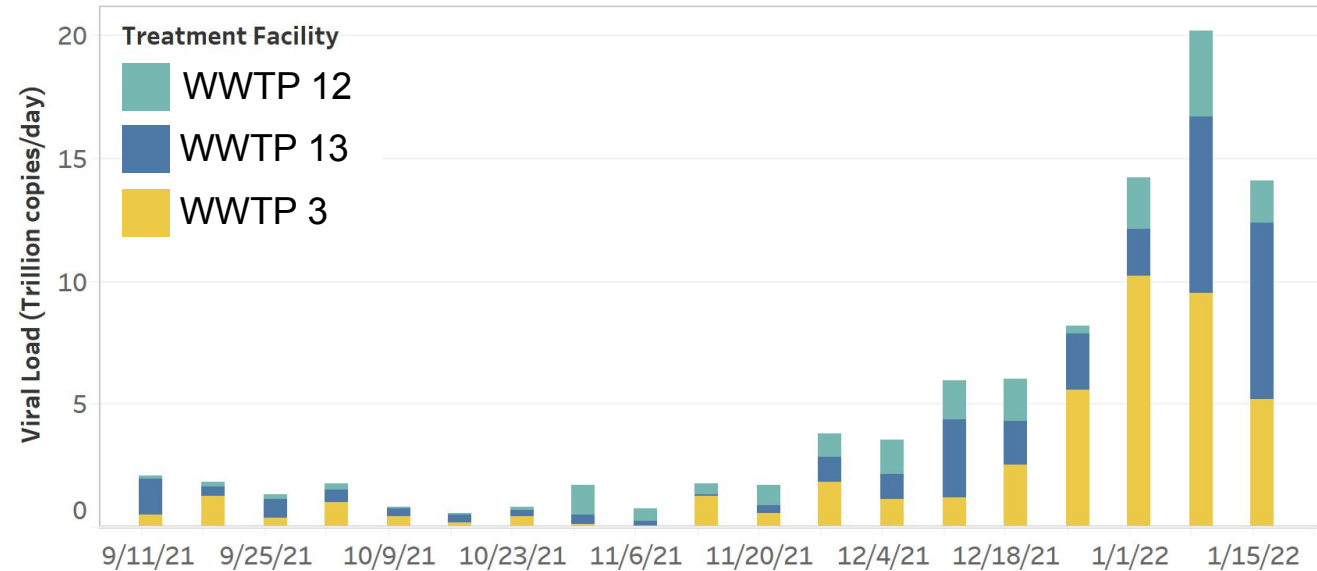
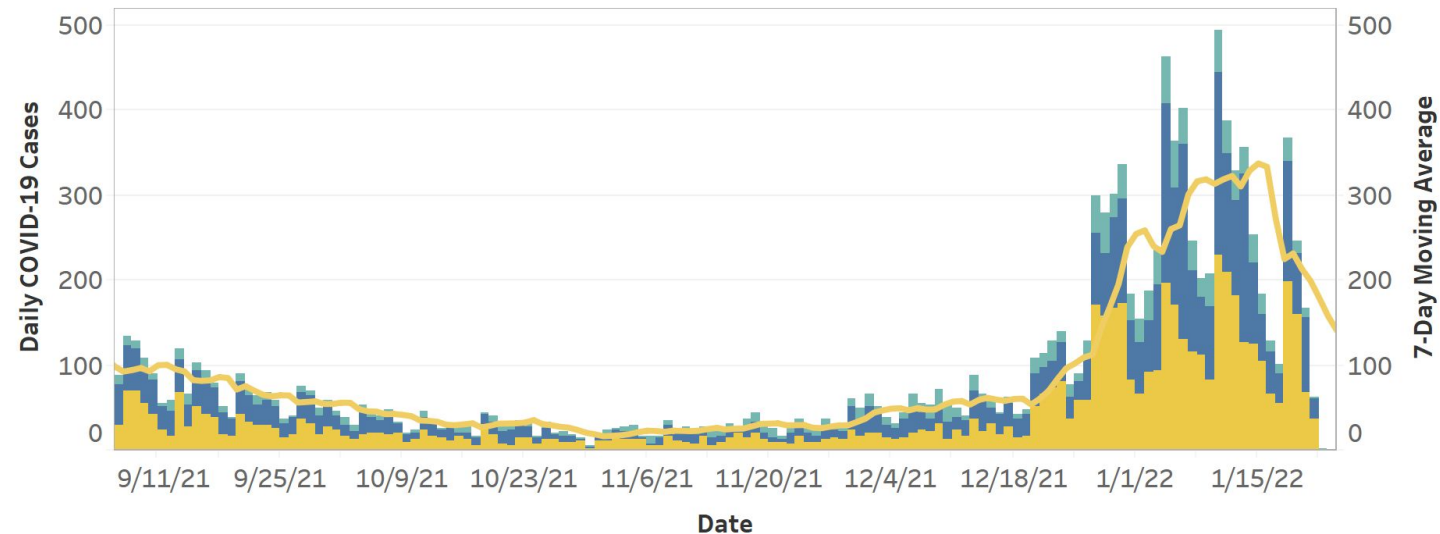
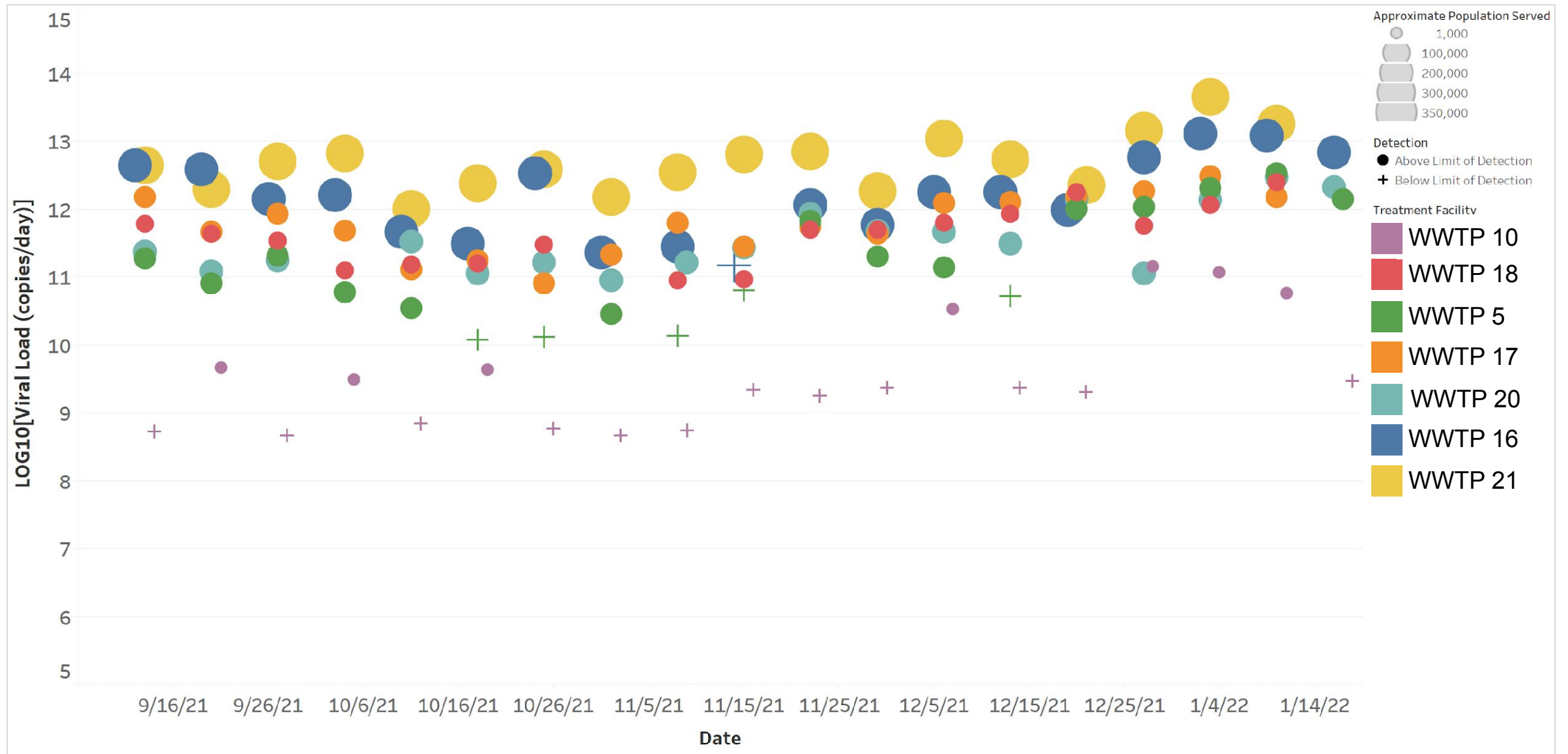


Figure 1b. COVID-19 Case Data



Near Southwest VA Facilities



Near Southwest VA Facilities (Stacked)

Figure 1a. SARS-CoV-2 in Wastewater

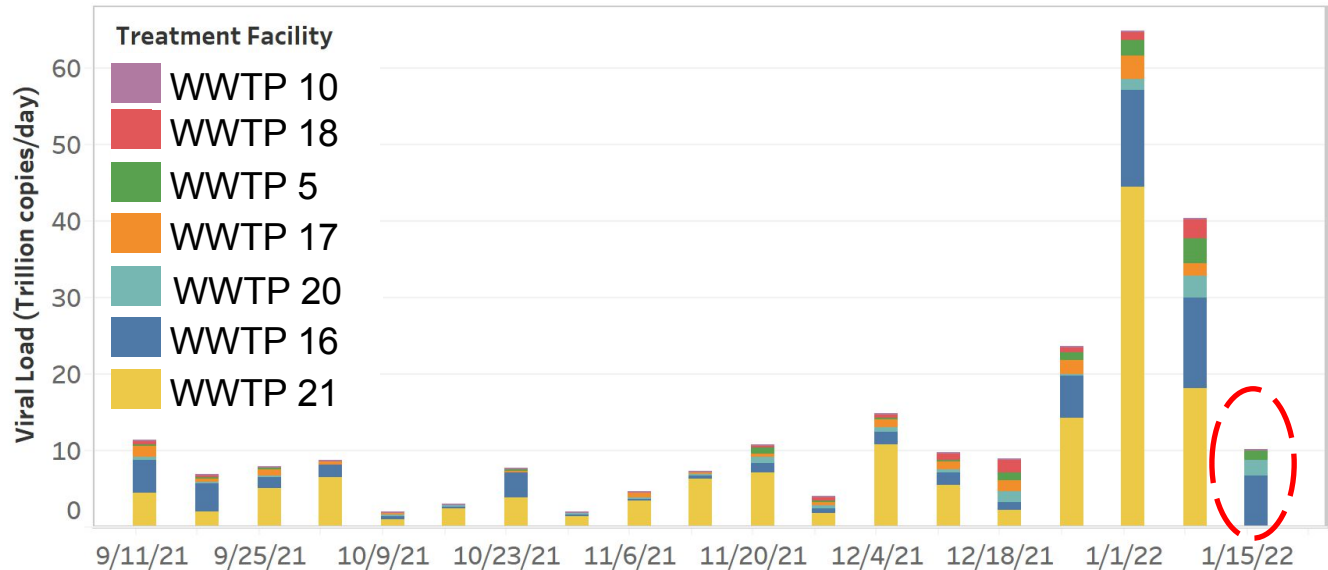
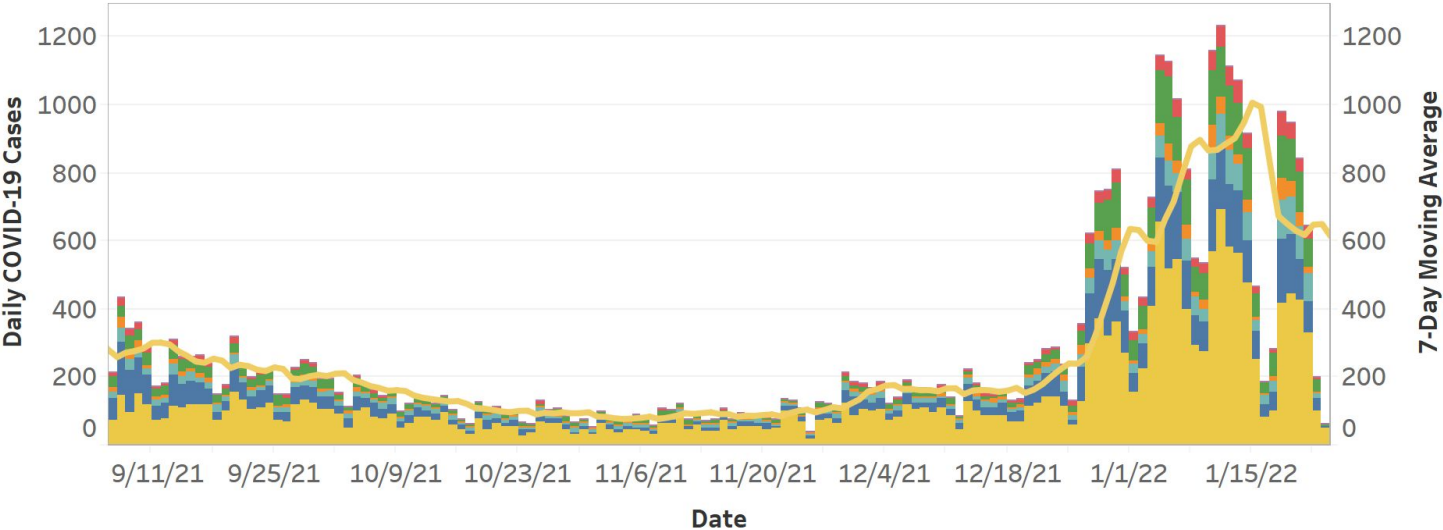
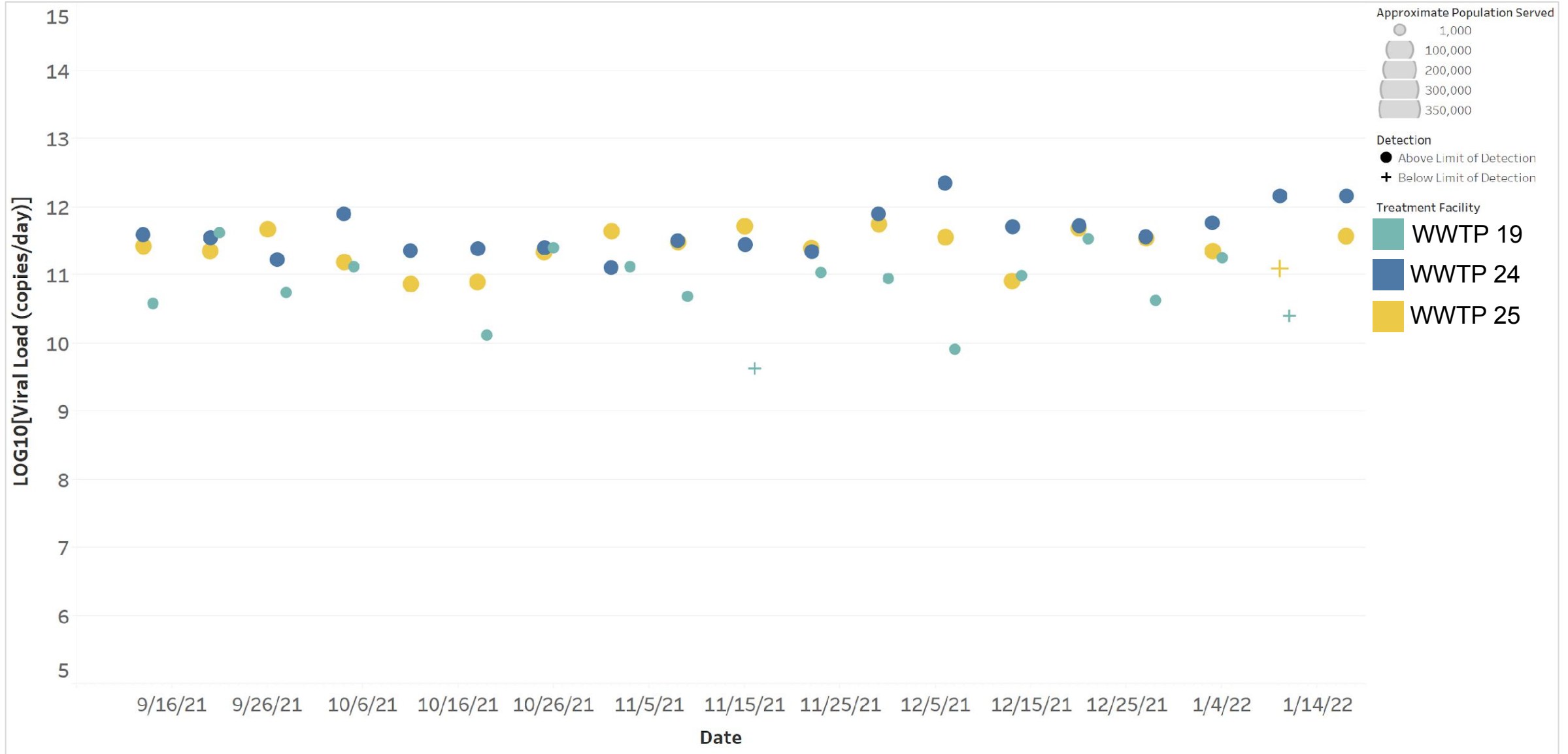


Figure 1b. COVID-19 Case Data



Far Southwest VA Facilities



Far Southwest VA Facilities (Stacked)

Figure 1a. SARS-CoV-2 in Wastewater

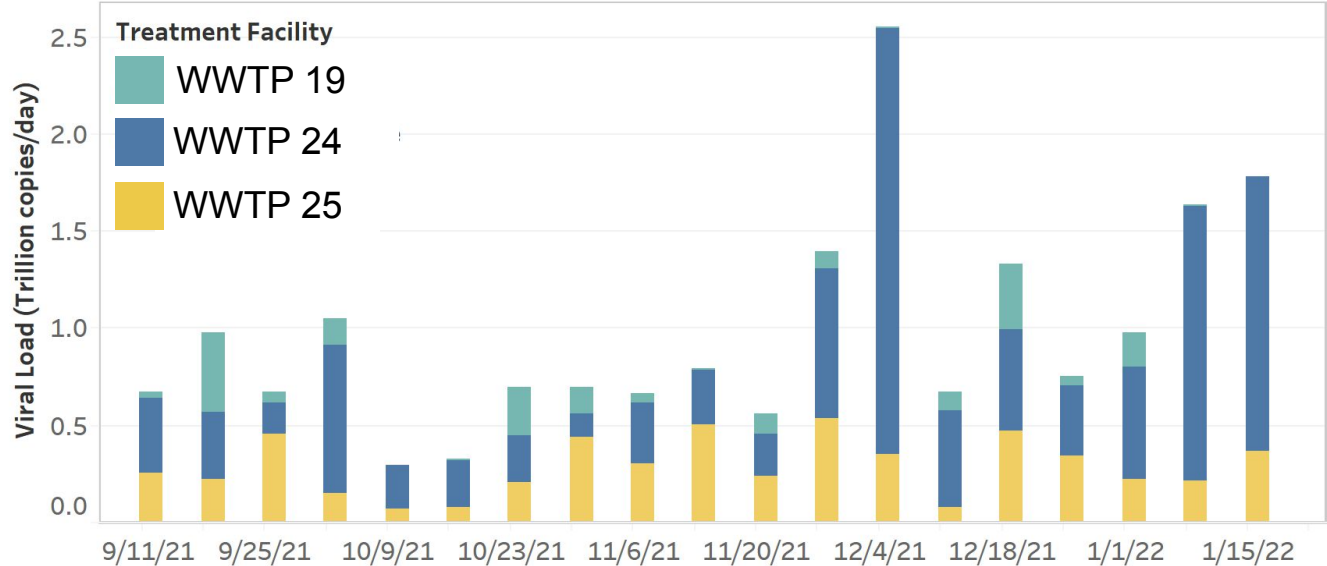
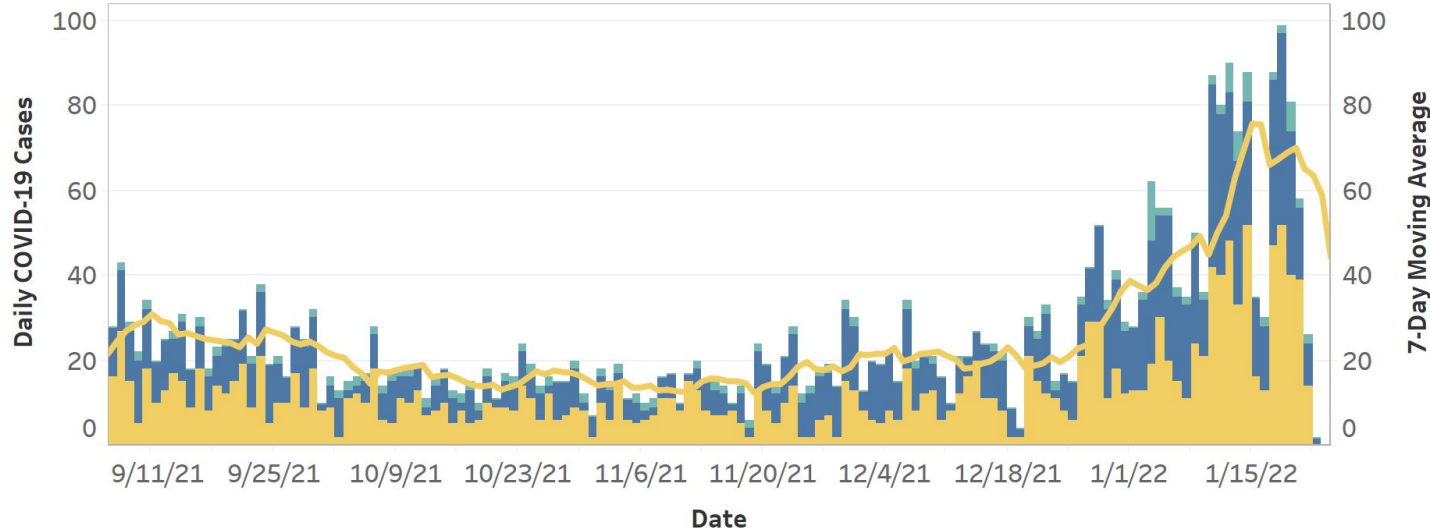
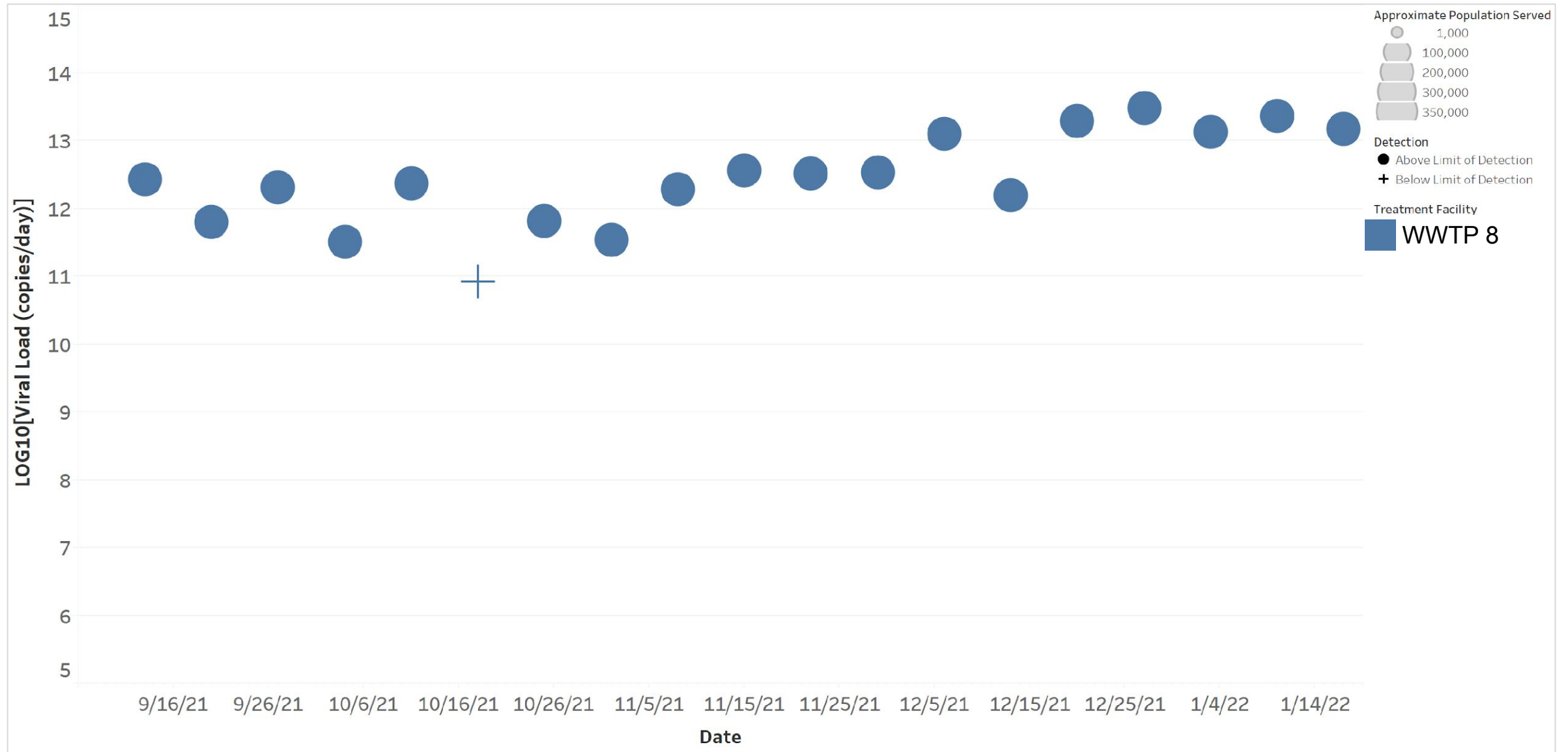


Figure 1b. COVID-19 Case Data



Central VA Facilities



Central VA Facilities (Stacked)

Figure 1a. SARS-CoV-2 in Wastewater

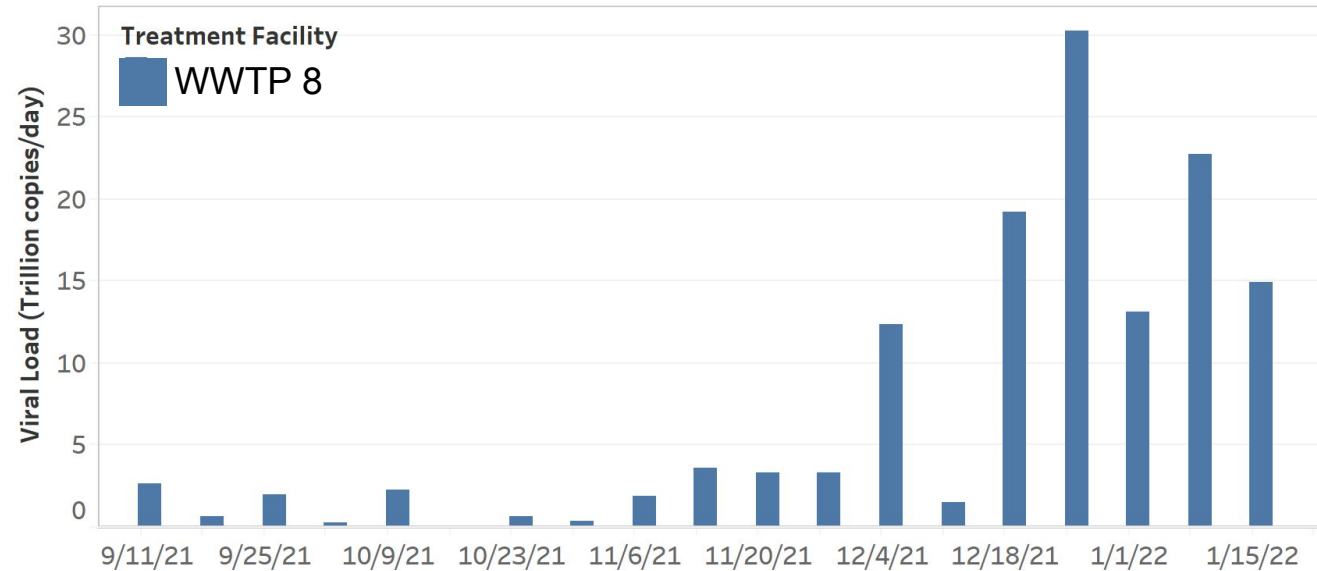
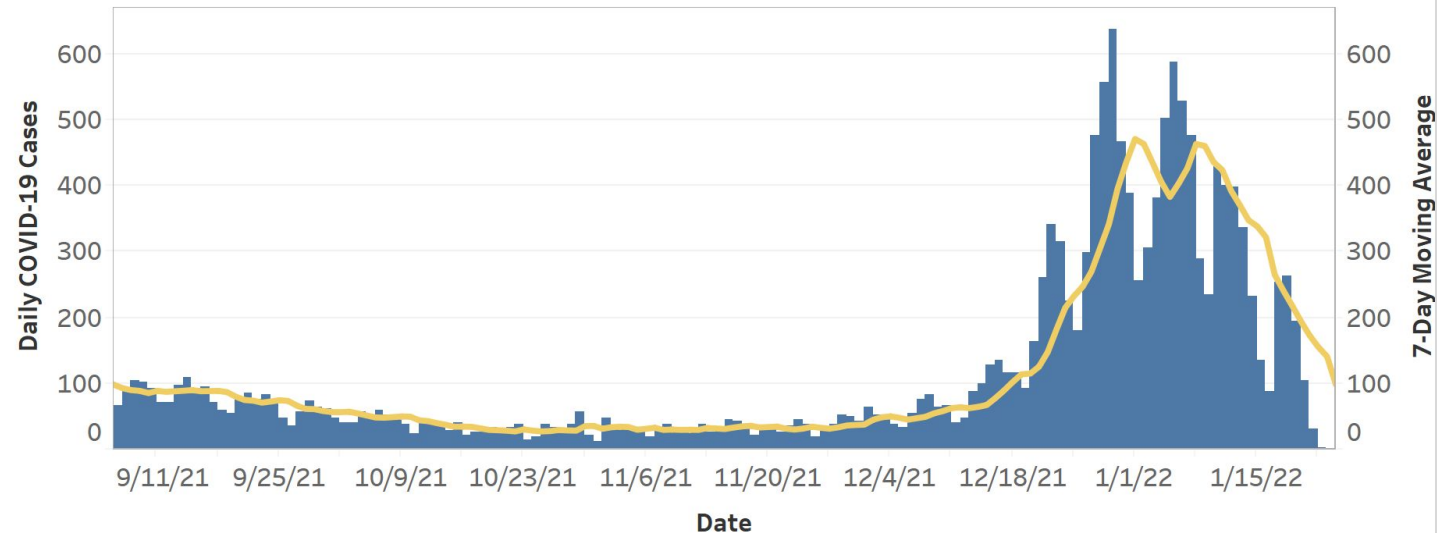
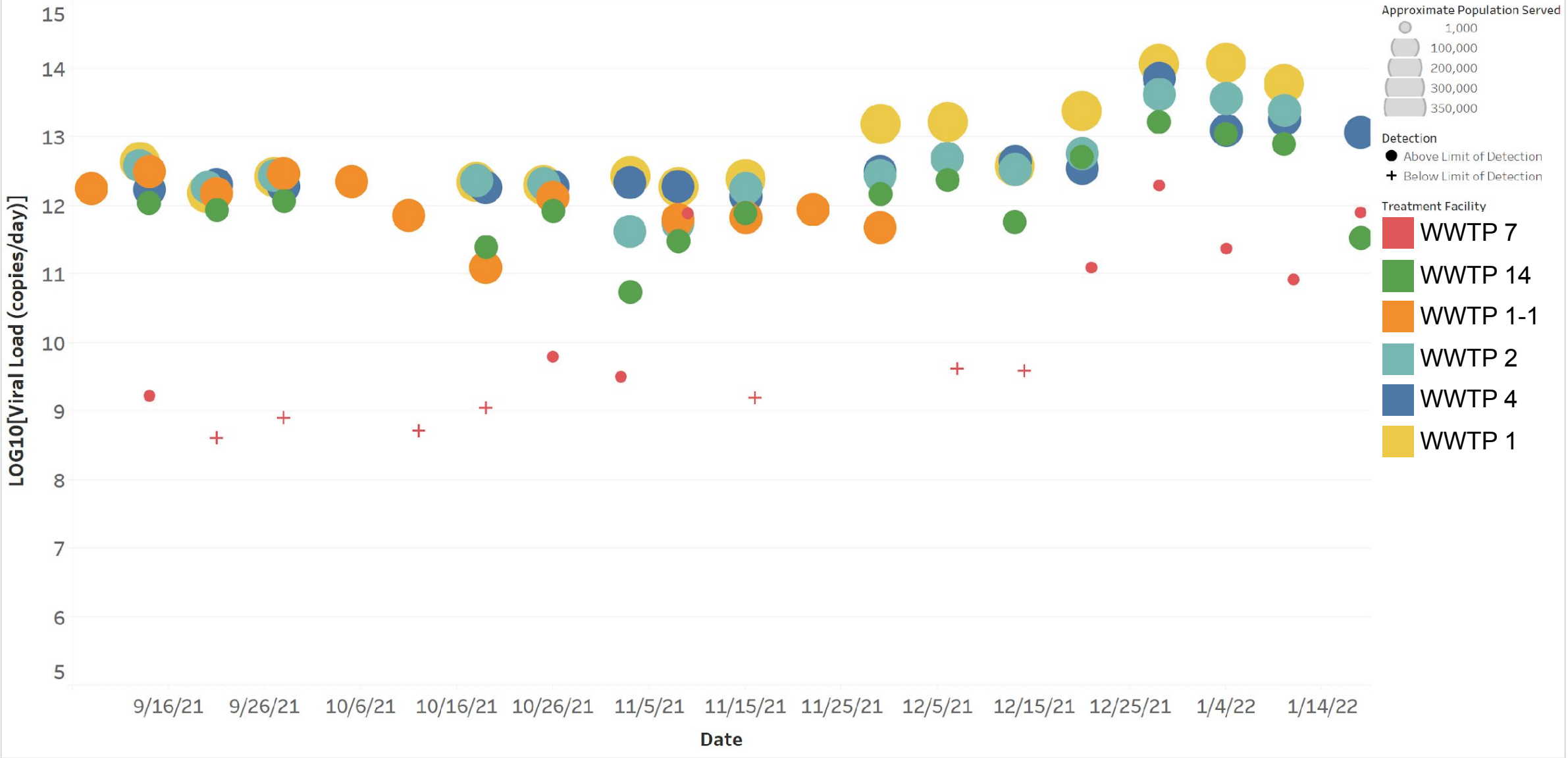


Figure 1b. COVID-19 Case Data



Eastern VA Facilities



Eastern VA Facilities (Stacked)

Figure 1a. SARS-CoV-2 in Wastewater

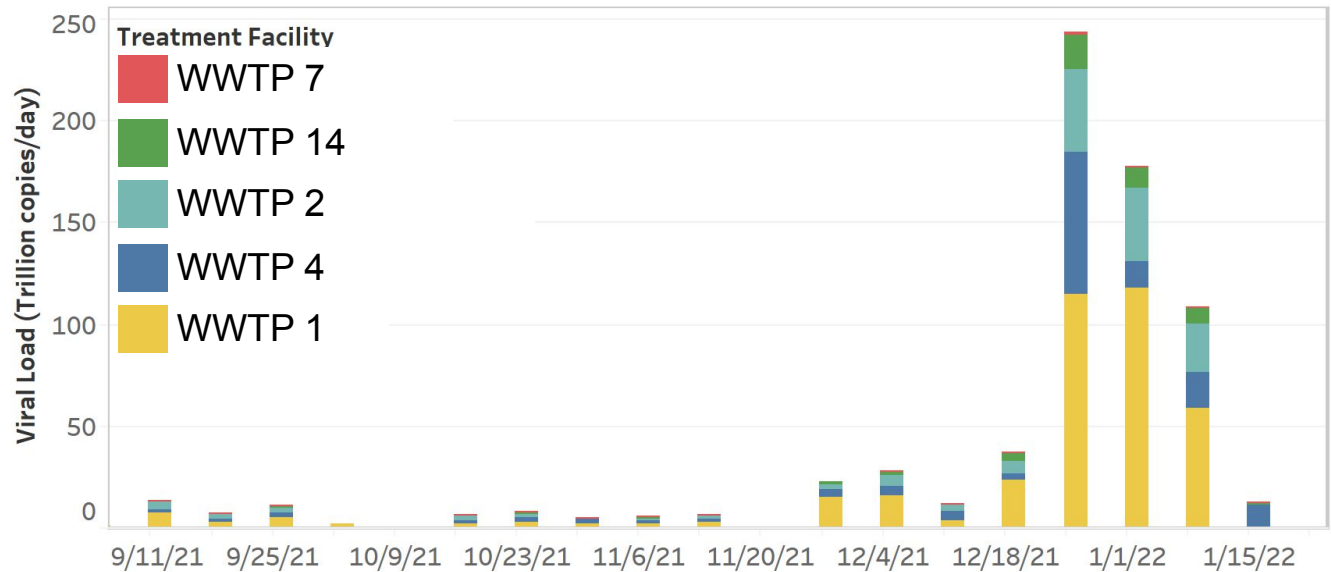
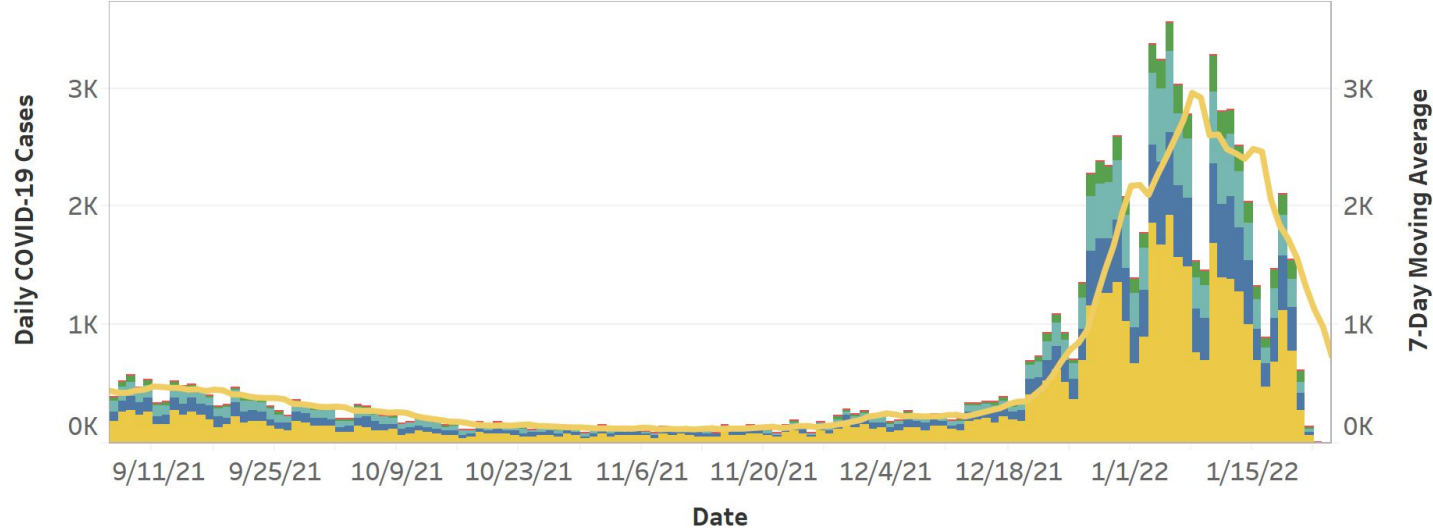


Figure 1b. COVID-19 Case Data



Dashboard

Currently:

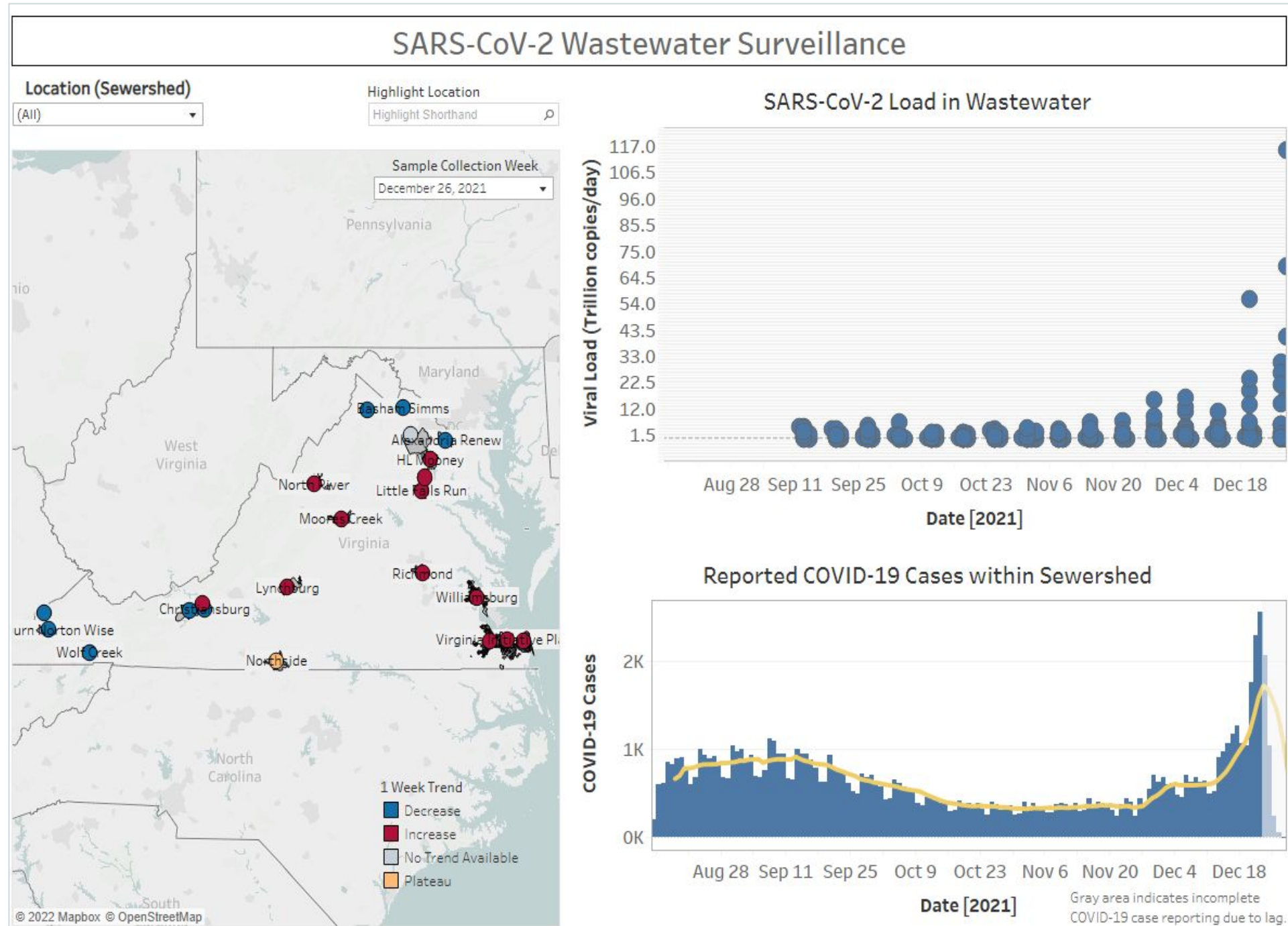
- VDH-internal only
- Development phase
- Public health partners

Soon:

- Public-facing
- Updated weekly
- VDH Insights

Data Shown:

- Shapefile boundary
- WWS site data
- Sewershed cases



Key Takeaways

- Viral loads decreased/plateaued at most sites in week 19!
- Viral loads are still *historically* high (i.e., not as low as they have been in the past)
 - Most are still in the 80th percentile
- Viral loads and sewershed cases appear to track well



Questions & Open Discussion

THANK YOU!



See you next month!

Send inquiries / topics to:
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